AMENDMENTS TO THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Currently amended) A method for growing a single-crystal region of a III-V compound on a surface corresponding to a crystallographic plane of a single-crystal silicon substrate, comprising the steps of:

growing by epitaxy on the substrate a single-crystal germanium layer;

etching in a portion of the thickness of the germanium layer an opening, the <u>a</u> bottom of which corresponds to a single surface inclined with respect to said cristallographic <u>crystallographic</u> plane or to several surfaces inclined with respect to said cristallographic <u>crystallographic</u> plane; and growing the single-crystal III-V compound on the bottom of the opening.

- 2. (Currently amended) The method of claim 1, wherein the single-crystal silicon substrate has an orientation and said inclined surface(s) is (are) inclined by an angle of substantially from 5 to 7 degrees with respect to said eristallographic crystallographic plane.
- 3. (Currently amended) The method of claim 1, wherein the single-crystal silicon substrate has an orientation and the bottom of the opening comprises two surfaces inclined by substantially from 5 to 7 degrees with respect to said eristallographic crystallographic plane.
- 4. (Original) The method of claim 1, further comprising the step of growing on the single-crystal silicon substrate at least one layer of a silicon and germanium alloy on which the germanium layer is grown.
- 5. (Currently amended) The method of claim 1, further comprising the step of growing an oxide layer on the germanium layer and of etching said oxide layer to form a relief area on said

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oxide layer, the shape a shape of the surface of said relief area being transferred by etching into the germanium layer.

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- 6. (Original) The method of claim 1, wherein the thickness of the germanium layer separating the bottom of the opening and the single-crystal silicon substrate is greater than 300 nanometers.
- 7. (Original) The method of claim 1, wherein the opening has a cross-section surface area of a few tens of square micrometers.
 - 8. (Original) The method of claim 1, wherein the III-V compound is gallium arsenide.
 - 9. (Cancelled)
 - 10. (Cancelled)
- 11. (New) A method for growing a single-crystal region of a III-V compound on a surface corresponding to a crystallographic plane of a single-crystal silicon substrate, comprising:

growing by epitaxy, on the substrate, a single-crystal germanium layer;

etching in the germanium layer an opening, a bottom of the opening corresponding to a single surface inclined with respect to the crystallographic plane or to several surfaces inclined with respect to the crystallographic plane; and

growing the single-crystal III-V compound on the bottom of the opening.

12. (New) The method of claim 11, wherein the single-crystal silicon substrate has an orientation and said inclined surface(s) is (are) inclined by an angle of substantially from 5 to 7 degrees with respect to said crystallographic plane.

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13. (New) The method of claim 11, wherein the single-crystal silicon substrate has an orientation and the bottom of the opening comprises two surfaces inclined by substantially from 5 to 7 degrees with respect to said crystallographic plane.

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- 14. (New) The method of claim 11, further comprising growing, on the single-crystal silicon substrate, at least one layer of a silicon and germanium alloy on which the germanium layer is grown.
- 15. (New) The method of claim 11, further comprising growing an oxide layer on the germanium layer and etching the oxide layer to form a relief area on the oxide layer, a shape of the surface of the relief area being transferred by etching into the germanium layer.
- 16. (New) The method of claim 11, wherein a thickness of the germanium layer separating the bottom of the opening and the single-crystal silicon substrate is greater than 300 nanometers.
- 17. (New) The method of claim 11, wherein the opening has a cross-section surface area of a few tens of square micrometers.
 - 18. (New) The method of claim 11, wherein the III-V compound is gallium arsenide.